

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	T			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,732	07/03/2001	Jae-Hong Kim	Q63316	8188
7590 03/12/2007 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW			EXAMINER	
			KIM, KEVIN	
Washington, D			ART UNIT	PAPER NUMBER
.			2611	<u> </u>
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/12/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

\$

	Application No.	Applicant(s)			
	09/897,732	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin Y. Kim	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 31 Ja	nuary 2007.				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>6-9</u> is/are allowed.					
6)⊠ Claim(s) <u>1,4 and 10</u> is/are rejected.		•			
7)⊠ Claim(s) <u>2,3,5</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers		•			
9) The specification is objected to by the Examiner					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	have been received.				
Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)		(220			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

Application/Control Number: 09/897,732 Page 2

Art Unit: 2611

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed January 31, 2007 have been fully considered but they are not persuasive.

Applicant traverses the rejection of claims 1,4 and 10 by arguing that the Kim et al patent fails to teach the detection of the frame length from an input data that has not been decoded by the preliminary decoding part. In support, applicant explains that the frame detectors (741, 743) do not detect the frame length and whether the first or second frame is selected is determined b frame decision block (750) based on whether the true signal is input from the first CRC detector or from the second CRC detector.

The frame detectors (741, 743) are configured to detect a 5 ms frame and a 20 ms frame respectively. The detectors produces a true signal when a valid frame is detected. In other words, when a 5 ms frame is received, the 5 ms detector (741) generates a TRUE signal and when a 20 ms frame is received the 20 ms detector (743) generates a TRUE signal. Thus, the frame decision block (750) decides that a 5 ms frame has been detected when a TRUE signal is asserted by the detector (741) and a 20 ms frame has been detected when a TRUE signal is asserted by the detector (743). This process clearly shows the detection of the frame length from an input data that has not been decoded by the preliminary decoding part.

Claim Rejections - 35 USC § 102

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Application/Control Number: 09/897,732 Page 3

Art Unit: 2611

3. Claims 1,4 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al (US 6,438,119 cited previously).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Kim et al discloses an apparatus (see Fig.9) for decoding data of unknown frame length, comprising:

a preliminary decoding part (721,723) for decoding input data into preliminarily decoded data according to each of the possible frame lengths; and

a decoded data outputting part (731) for selectively outputting data that correspond to a frame length detected from the input data which has not been decoded by the preliminary coding part, from among the preliminarily decoded data which are decoded by the preliminary decoding part according to each of the possible frame lengths. Note the frame length is detected by first and second frame detectors (741,743) which detects the frame length from the input data (out of diversity combiner 713, thus before decoded) which has not been decoded by the the preliminary coding part.

Allowable Subject Matter

4. Claims 6-9 are allowed.

Application/Control Number: 09/897,732

Art Unit: 2611

5. Claims 2,3 and 5 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on

8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be

reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR

or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-

786-9199 (IN USA OR CANADA) or 571-272-1000.

March 4, 2007

AU 2611

KEVIN KIM
PRIMARY PATENT EXAMINER

Page 4

12.1h